K RAIN®

KRX6™

6 ZONE INDOOR Wi-Fi IRRIGATION CONTROLLER

User Manual

3 YEAR WARRANTY

WWW.K-RAIN.COM.AU

Please be sure to read through all the instructions
before attempting to use your controller.

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PRODUCT CODE: KRX6

MNL0014 REV -

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Overview

Controls

1. **MAIN DIAL**
2. **AP** indicator
3. **START** button
4. **STOP** button

⚠ Do not disassemble this product. There are no serviceable parts inside. Some internal components can run at elevated temperatures and touching these could cause burns

Overview

Key Features

- Wi-Fi control with ***Holman Home*** via iOS® or Android®
- 6 **ZONES** can be added to the 3 **START** times
- Scheduling options: **7 DAYS**, **INTERVAL DAYS**, **ODD DAYS incl. 31st**, **ODD DAYS excl. 31st**, **EVEN DAYS**, with misting
- Max. 15 day rain delay
- 11:59 hr max. **RUN TIME** per **ZONE**
- **ZONE** and multi-zone (sequential) **MANUAL** control
- On-board **MANUAL** controls: **START** and **STOP**, including shut-off with the **MAIN DIAL**
- 1A 24V AC plug pack supply
- M-205 fuse rated at 1A for power spike protection
- Memory backup power requires 9V battery (sold separately)
- For indoor use only
- **Any electrical installation must be carried out in accordance with these instructions all Local, State and Federal codes**

Installation

Installation

On-board Controls

a) **AP WI-FI** for pairing your device to ***Holman Home*** app–refer to ADDING YOUR KRX6™ TO HOLMAN HOME

b) **OFF** globally disables all **STARTS**

c) **RUN** globally enables all **STARTS**

d) **ZONES (1–6)** to keep information of different watering areas separate

e) **STARTS (A–C)**, a **START** is a group of **ZONES** with common **WATERING DAYS**–refer to START SETTINGS to learn more about programming **STARTS**

f) **START** button to activate **ZONES/STARTS** manually–refer to ON-BOARD START/STOP CONTROLS

g) **STOP** button to disable **ZONES/STARTS** manually–refer to ON-BOARD START/STOP CONTROLS

Installation

On-board START/STOP Controls

Use on-board controls to manually start/ stop **ZONES** and **STARTS**

If **MAIN DIAL** is left in a **ZONE** position, it will not affect automatic programmed start times

1. To turn **ZONE/START** on:
    i. Turn **MAIN DIAL** to desired **ZONE** (d) or **START** (e)
    ii. Press the **START** button (f) and the controller will activate the selected **ZONE/START** for the programmed run time and turn off after–refer to ZONE SETTINGS for more information
2. To turn **ZONE/START** off:
    i. Turn **MAIN DIAL** to desired **ZONE** (d) or **START** (e)
    ii. Press the **STOP** button (g) and the controller will disable the selected **ZONE/START** for the programmed run time

Installation

Power Supply

- This unit can run off a 50Hz external transformer with an output of 24V AC 50Hz

- ***Input:*** 24V AC 50Hz
  Output: Max 1 amp

- ***To zones:***
  24V AC 50/60Hz.
  0.5 amp max

- ***To master/pump:***
  24V AC 0.25, amp max

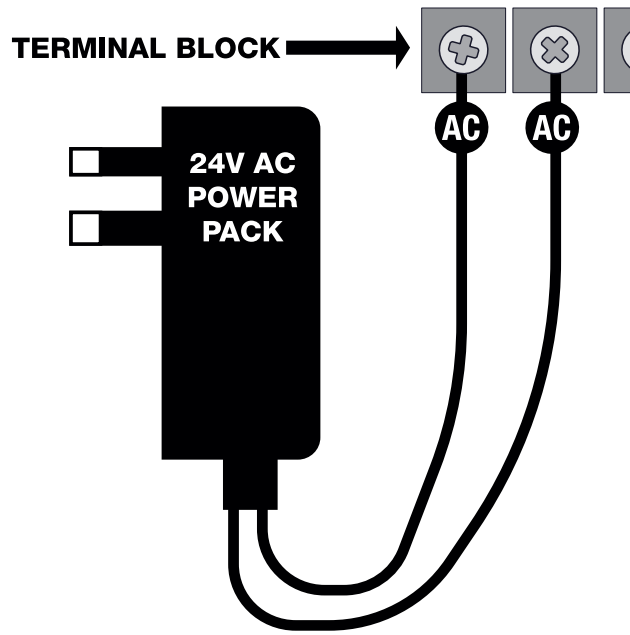
- ***Overload protection:***
  Standard 20mm
  1 amp fuse

- Transformer and fuse capacity must be compatible with output requirements

- Output circuits should be installed and protected in accordance with wiring rules

- Connect each wire from the power pack to the **AC SLOTS** as shown below

- Note there is no polarity to the wires; it does not matter which wire connects to which **AC SLOT**

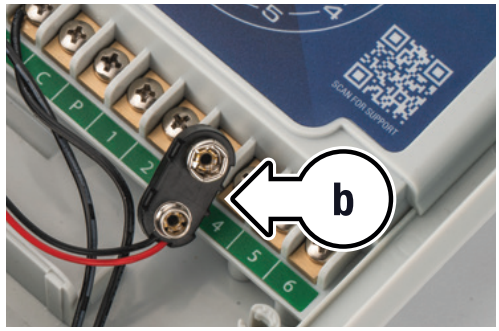


Installation

9V Battery

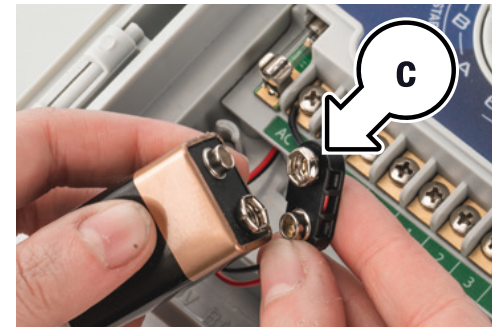
1. Open the controller housing door

2. Locate the 9V battery snap (b)



This may be located under the terminal cover. If needed, please remove the cover using the two tabs (a), feed the battery snap cable through the slit and then replace the terminal cover

3. Connect a 9V battery to the snap (c)



4. Fit in the compartment labelled **9V BATTERY** in the lower end of the housing

Installation

Installing Holman Home

1. Download ***Holman Home*** to your mobile device via the ***App Store*** or ***Google Play***

2. Open ***Holman Home*** on your mobile device

ⓘ You may be prompted to allow notifications–the app can still function if you choose to opt out

3. Tap **SIGN UP**

4. Read our User Agreement and Privacy Policy and tap **AGREE** if you wish to proceed

5. Follow the prompts to register a ***Holman Home*** account with your email address

⚠ **Ensure your country details are correct at this stage**

ⓘ You may be prompted to allow access your location. This allows the app to show weather information-it will still function if you choose to opt out

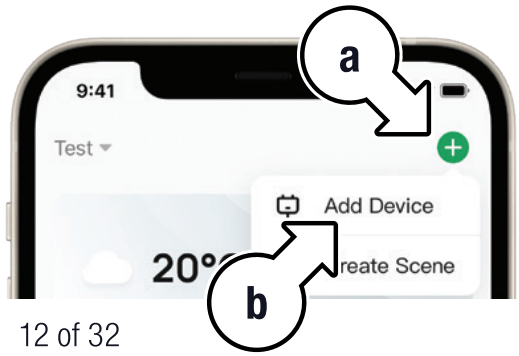
Installation

Adding your KRX6™ to Holman Home

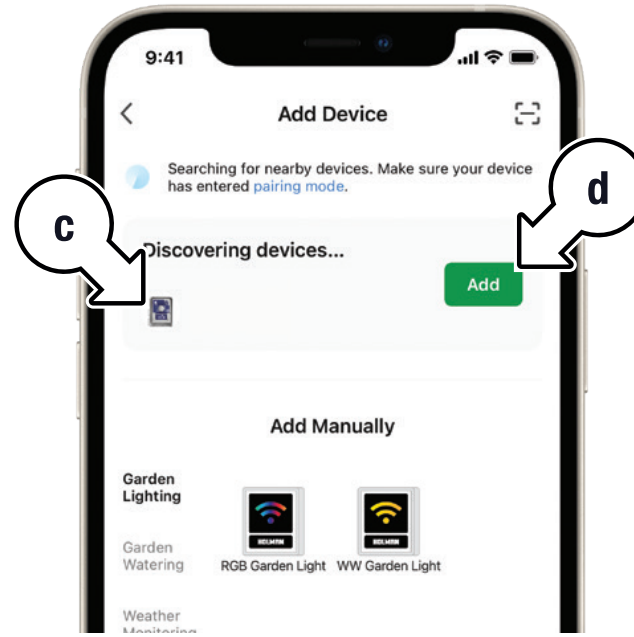
1. Before attempting to connect your ***KRX6™*** to ***Holman Home***, ensure:

    - 9V battery connected
    - Plug pack connected to power socket
    - ***KRX6™*** is close to your router
    - Bluetooth® on your smartphone is active
    - Ensure the **MAIN DIAL** is set to **AP WI-FI** for pairing

2. Open the **HOME** screen in ***Holman Home*** and tap ⊕ (a) and **ADD DEVICE** (b)



3. If your ***KRX6™*** appears in the **DISCOVERING DEVICES...** section (c), tap **ADD** (d)

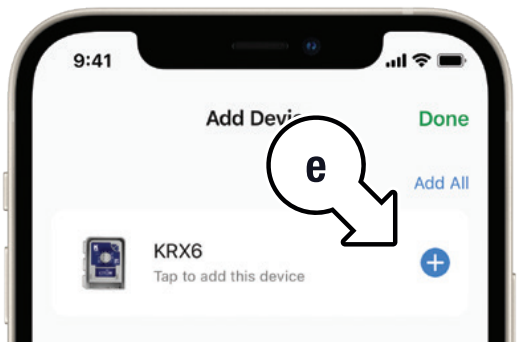


ⓘ If your ***KRX6™*** does not appear here, refer to **AP MODE** connection methods for further assistance

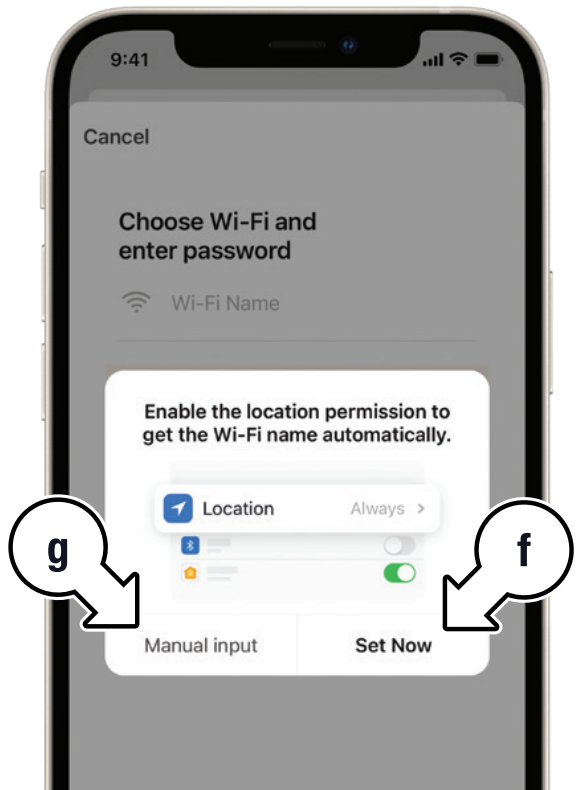
Installation

Adding your KRX6™ to Holman Home (continued)

4. In the following screen, tap ⊕ (e) next to your ***KRX6™***

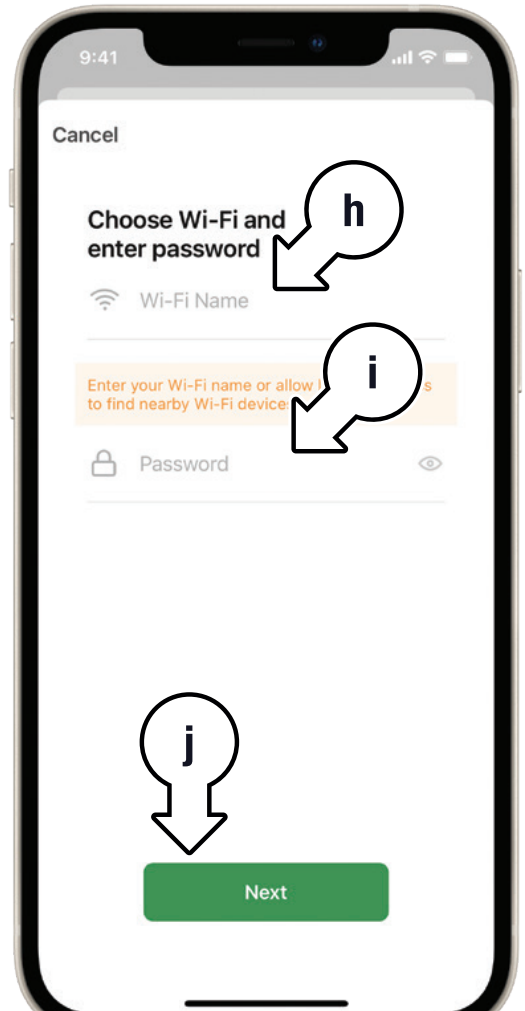


ⓘ ***Holman Home*** will ask to access location data; tap **SET NOW** (f) to share this with ***Holman Home***



ⓘ Alternatively, to connect without sharing location, tap **MANUAL INPUT** (g)

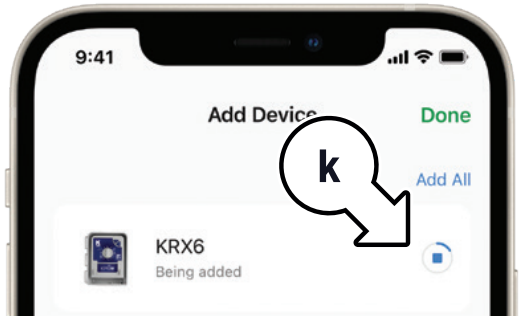
5. Enter the **Wi-Fi NAME** (h) and **PASSWORD** (i) of your Wi-Fi network as necessary and tap **NEXT** (j)



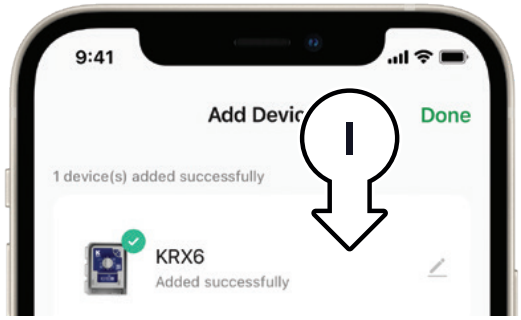
Installation

Adding your KRX6™ to Holman Home (continued)

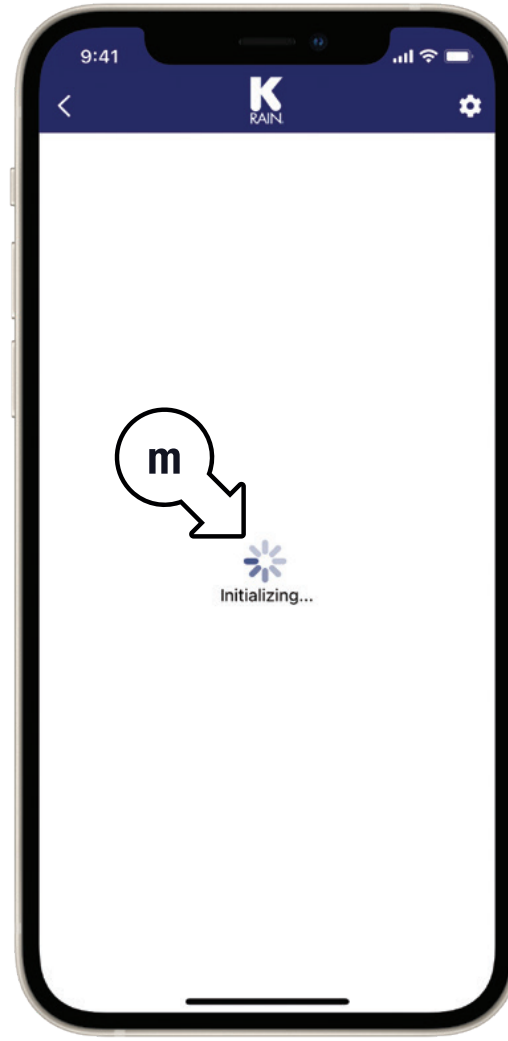
- It may take a few minutes for your ***KRX6™*** to add to ***Holman Home***; please wait for the progress dial (k) to finish



6. Once the connection process is complete, ***Holman Home*** will confirm it has successfully added your ***KRX6™*** (l); tap **DONE** to access the main **KRX6™** screen



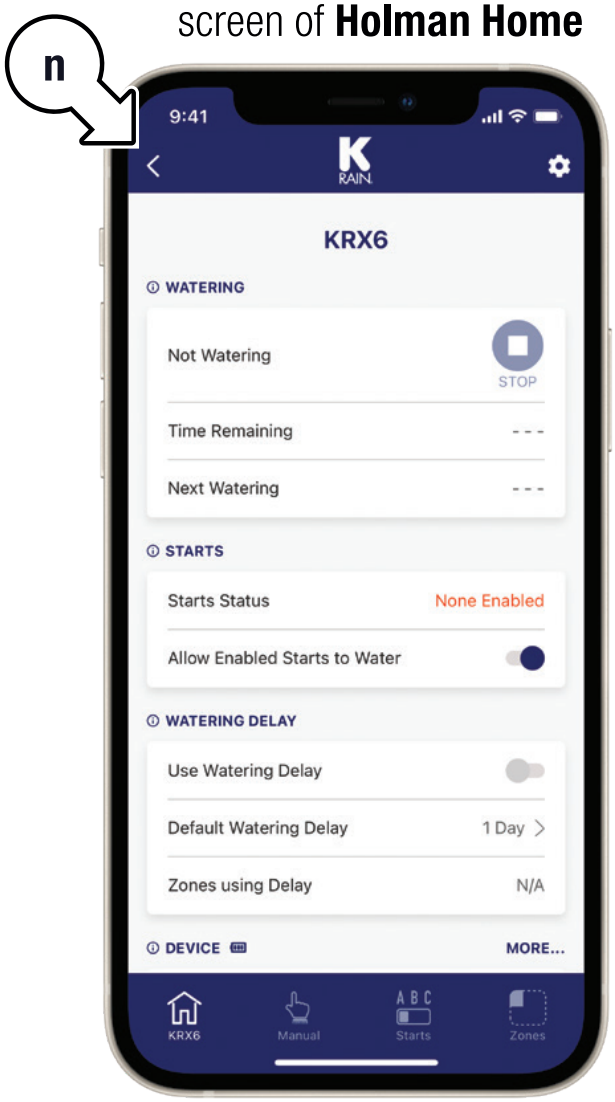
- On first use, the ***KRX6™*** interface will need a moment to initialise (m)



Installation

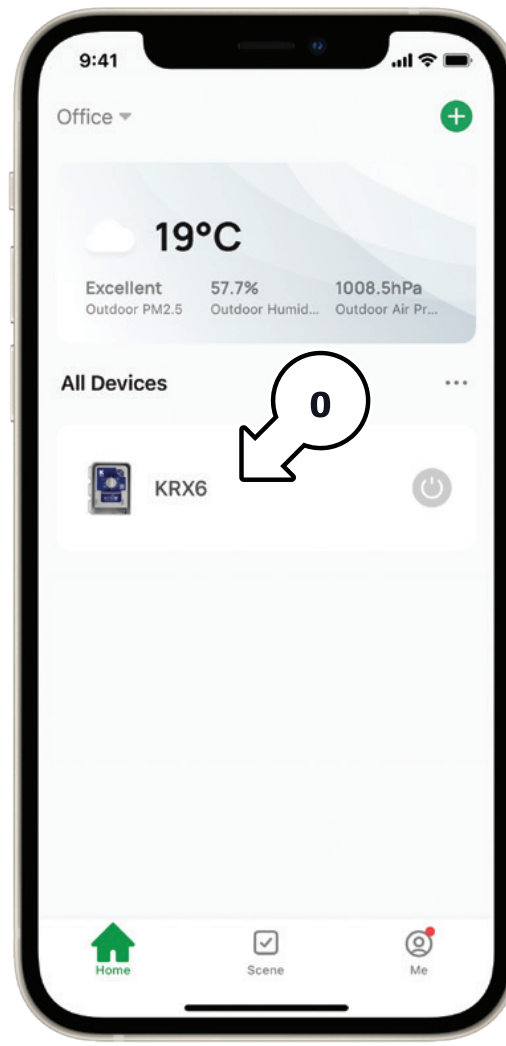
Adding your KRX6™ to Holman Home (continued)

7. Once initialisation is complete and the ***KRX6™*** is connected, the **KRX6™** screen will display; tap ‹ (n) to return to the **HOME** screen of **Holman Home**



8. Your ***KRX6™*** will now be shown on the **HOME** screen under **ALL DEVICES** (o)

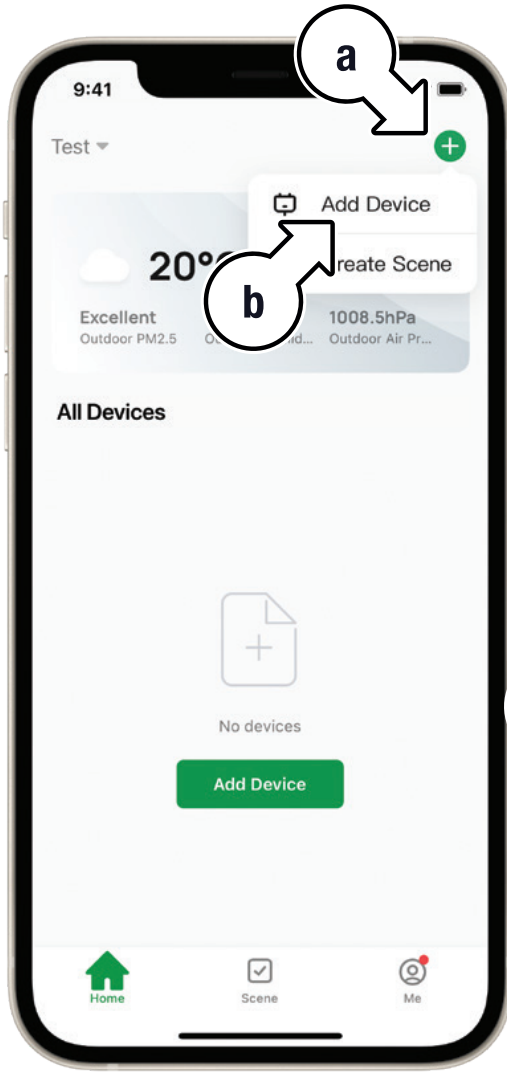
⚠ **Set the MAIN DIAL to the RUN position after pairing is completed**



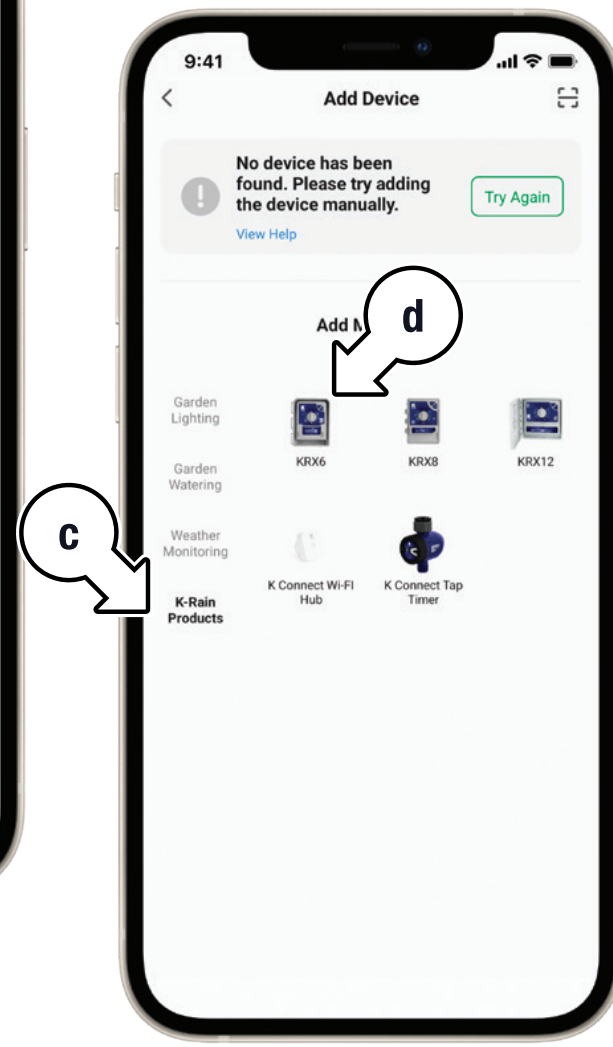
Installation

Adding your KRX6™ using AP Mode

1. Open the **HOME** screen in ***Holman Home*** and tap ⊕ (a) and **ADD DEVICE** (b)



2. If your ***KRX6™*** does not appear in the **DISCOVERING DEVICES...** section, under the **Add Manually** menu, tap **K-Rain Products** (c) and select ***KRX6™*** (d)



Installation

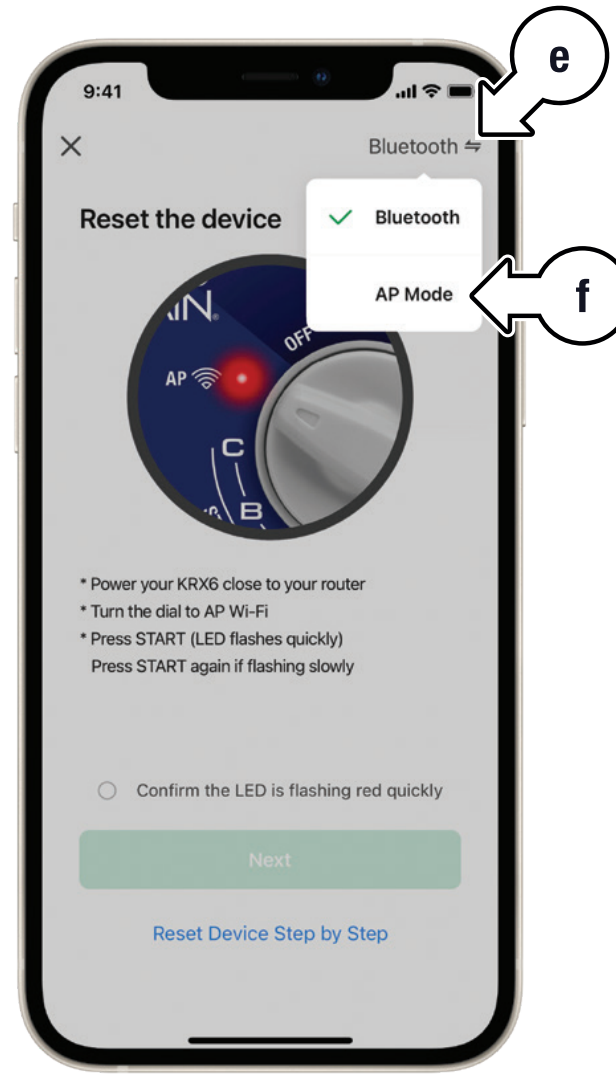
Adding your KRX6™ using AP Mode (continued)

3. Ensure your smartphone mobile data is switched off before trying **AP MODE**

4. In the connection screen, tap **BLUETOOTH** ⇄ (e) and select **AP MODE** (f) from the subsequent drop-down menu

5. Work through the following prompts in ***Holman Home*** to complete the **AP MODE** connection process

⚠ **Set the MAIN DIAL to the RUN position after pairing is completed**



Installation

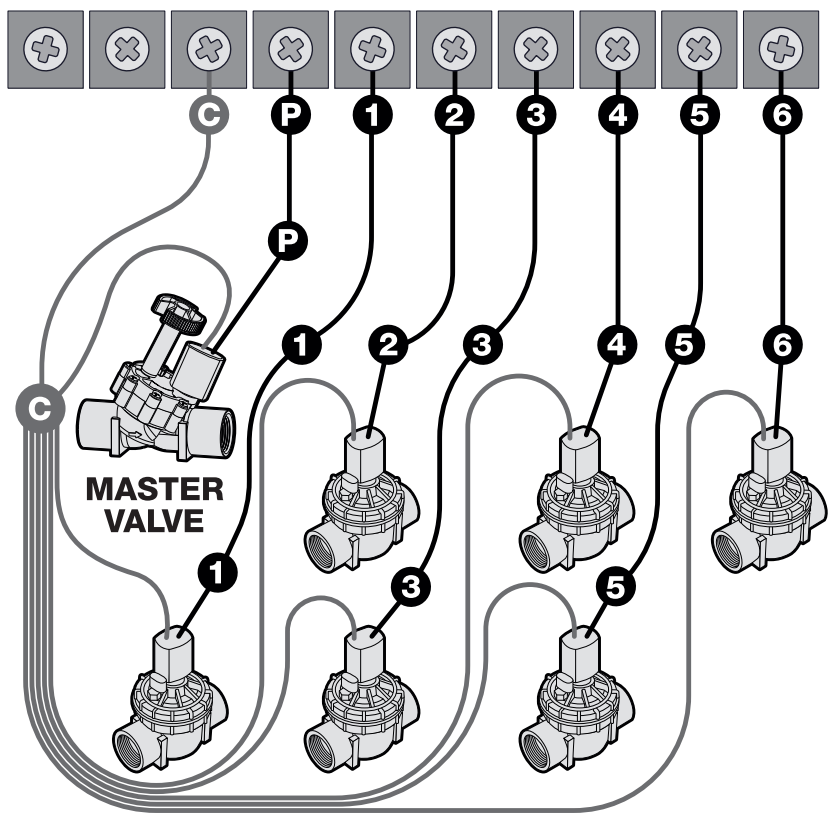
Field Wiring

⚠ Disconnect all 240V AC power before commencing any field wiring or solenoid valve connection

ⓘ Strip approx. 6mm of insulation and place under the loosened screw, tighten gently and check cable is firmly held

1. Connect one cable from the terminals to each solenoid valve

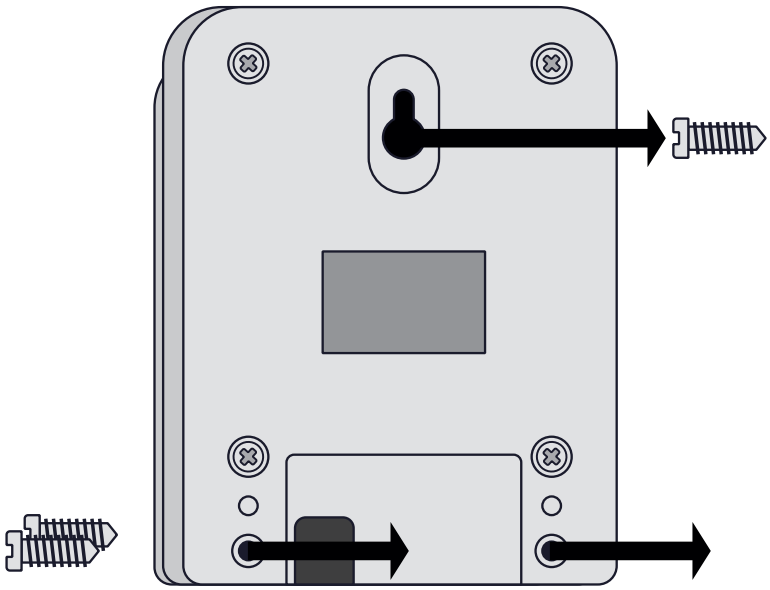
2. Complete the circuit by *looping* a common cable to all valves and connecting to the **COMMON** (**C**) terminal



Installation

Mounting the Unit

- The unit is an indoor model and must not be exposed to rain or water ingress, or direct sunlight
- Install near a 240V AC outlet
- We recommend mounting the unit at eye level



1. Drive a #8 screw into the wall, leaving approx. 4mm exposed. Use a toggle bolt or masonry plug if necessary
2. Hang the unit from the key at the back, ensuring it is properly seated
3. Optional: Remove the terminal cover to add additional screws through the holes in the lower corners for extra stability

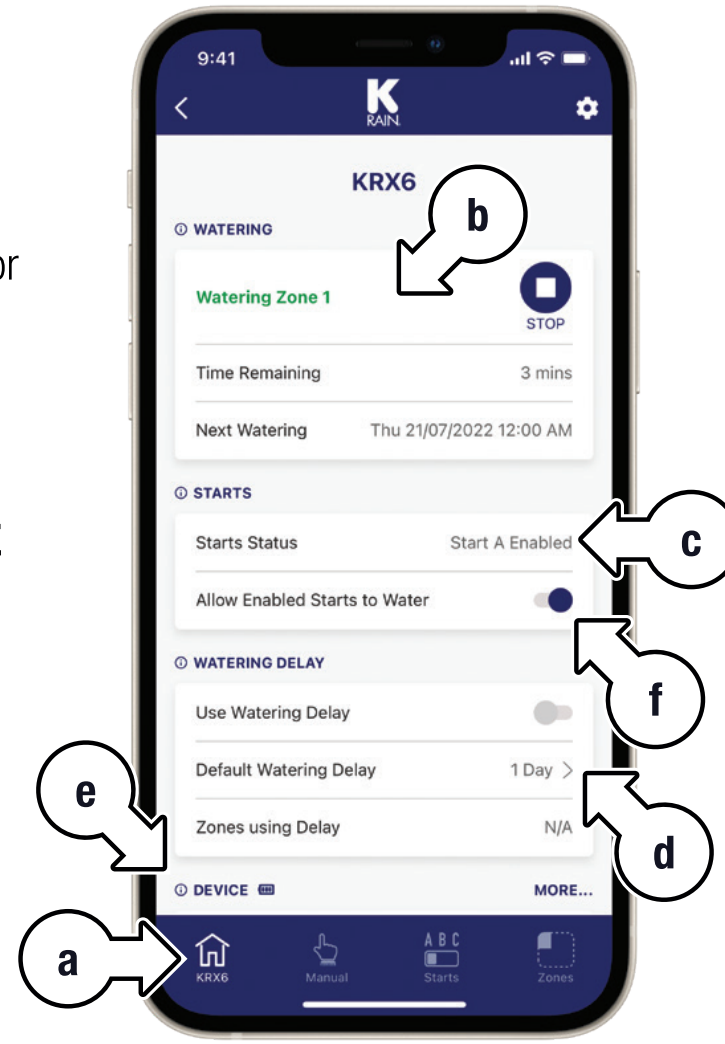
Controls

KRX6™ Home Screen

- Within the ***KRX6™*** interface, tap **KRX6™** ⌂ (a)

- This page displays info for your ***KRX6™***, including **WATERING** status (b), **STARTS** status (c), **WATERING DELAY** settings (d), and **DEVICE** status (e)—note the ▭ icon will turn red when your battery needs replacing

- Enable or disable all **STARTS** by using the **ALLOW ENABLED STARTS TO WATER** switch (f)



- All **STARTS** can also be globally enabled or disabled by setting the **MAIN DIAL** to **RUN** or **OFF** respectively

Controls

Start Settings

- Within the ***KRX6™*** interface, tap **STARTS** in the main footer menu

- Tap the desired **START** (a) for the following settings:

  - **ENABLE** (b)
  - Set a **START TIME** (c)
  - **WATERING ROSTER** (d)
  - Activate a **ZONE** using the check box ☑ (e)
  - Set **RUN TIME** by tapping a **ZONE**

- If **STARTS** are queued for the same time, they will run sequentially from **START A**

- **STARTS** will be skipped if they are run manually during the queue process

- Be sure to tap **SAVE** (f) after finalising your **START** settings

Controls

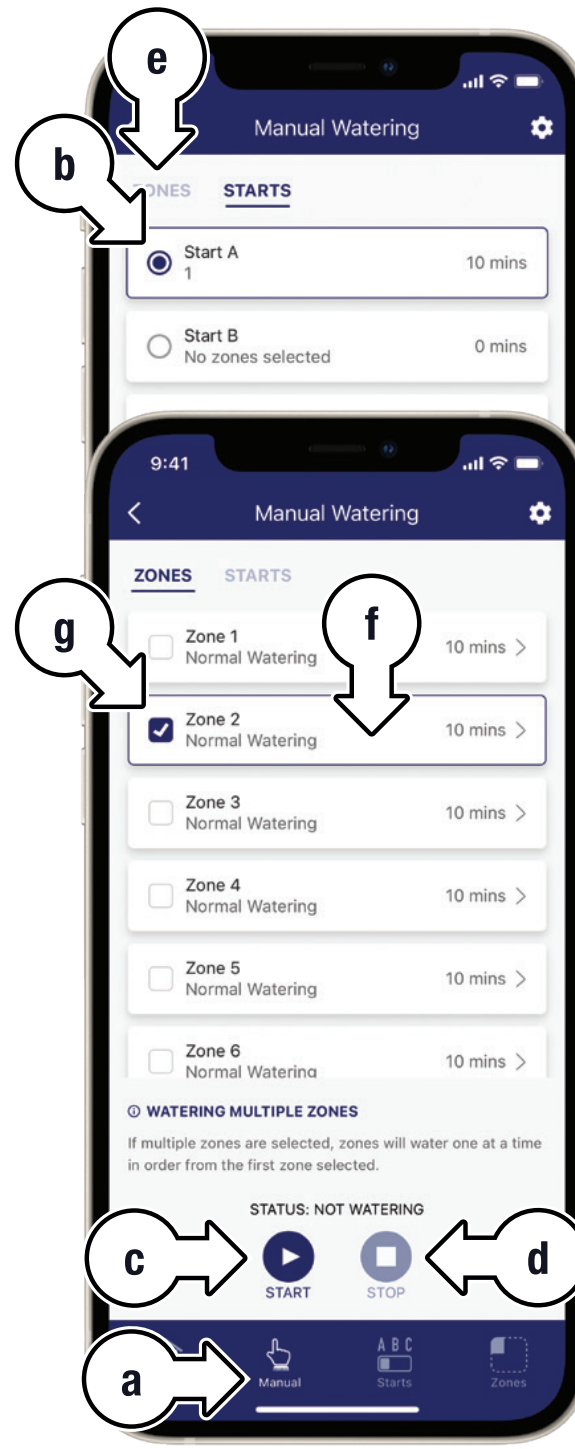
Zone Settings

- Within the ***KRX6™*** interface, tap **ZONES** (a)
- Tap the desired **ZONE** for the following settings:
  - **ZONE NAME** (b)
  - **WATERING DELAY** on or off (c)
- Also includes **MISTING**:
  - **WATERING MODE** (d)
  - **ON TIME** (e)
  - **DELAY TIME** (f)
- **RUN TIMES** for each **START** (g)
- Be sure to tap **SAVE** (h) after finalising your **ZONE** settings

Controls

Manual Watering

- Within the ***KRX6™*** interface, tap **MANUAL** (a)
- Use the selector ⦿ (b) to select a **START** to water
- Tap **START** ▶ (c) to begin watering the as per the pre-set **START** settings
- Tap **STOP** ■ (d) to end the watering session
- Tap **ZONES** (e) to water **ZONES** individually
- Tap a **ZONE** (f) to access its manual controls
- Tap a check box ☑ (g) to activate



Controls

Manual Watering (continued)

a **ZONE** for your manual watering session

- If your ***KRX6™*** is already watering a schedule, you will need to stop this to be able to water manually

- If multiple **ZONES** are selected they will water sequentially starting at **ZONE 1**

- **ZONES** will run as **NORMAL** or **MISTING** watering depending on pre-set **ZONE** settings

- It is not possible to choose multiple **STARTS** for manual watering

Additional Notes

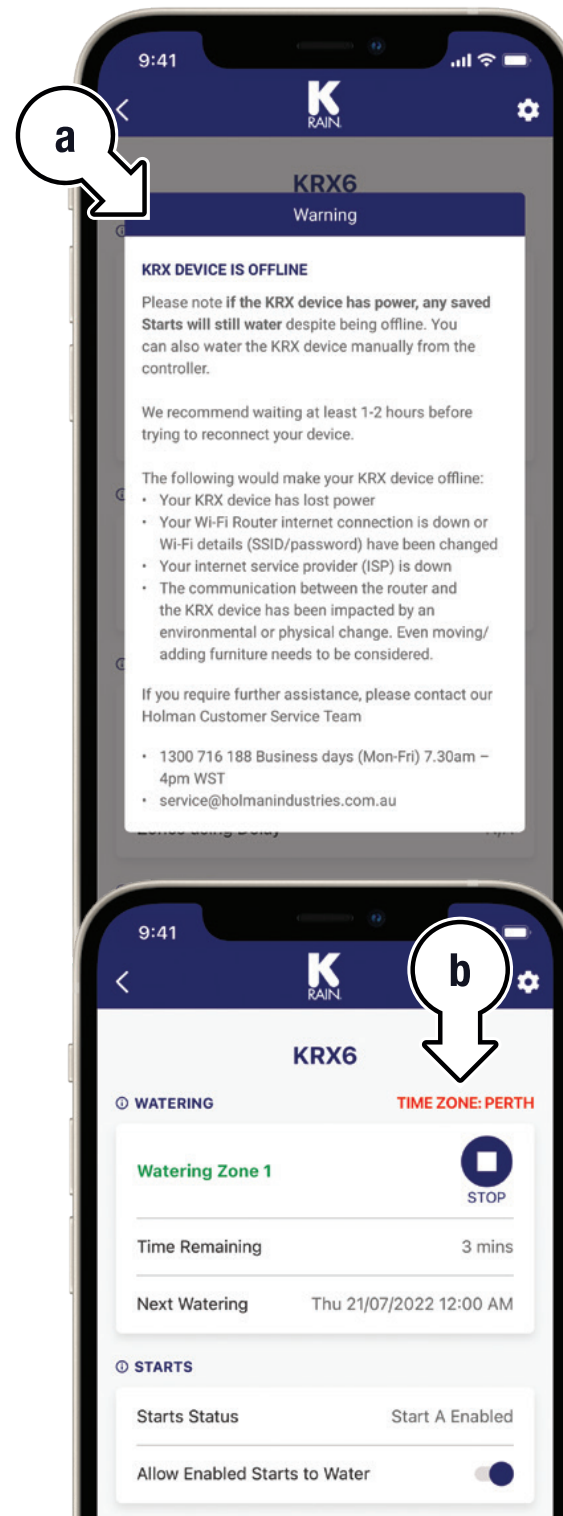
Offline Device

- A warning message (a) will be displayed if your ***KRX6™*** is not connected to the internet

- If your ***KRX6™*** still has a connection to power, it will still water the saved **STARTS** despite being offline from ***Holman Home***–it will still be possible to water manually using the on-board controls

Time Zones

- When in a different time zone to your ***KRX6™***, ***Holman Home*** will highlight which time zone the ***KRX6™*** is sitting (b)



Additional Notes

Holman Home Automations

- If **STARTS** are run as part of a ***Holman Home*** automation, they will behave the same as a manually run **START**

- **WATERING DELAYS** only effect scheduled **STARTS** from the **KRX6™** interface–**STARTS** running from ***Holman Home*** automations will ignore **WATERING DELAYS**

- To exclude **ZONES** using the **WATERING DELAY** function, this will need to be set using two ***Holman Home*** automations–for example:

- If the time is 1:00 am and ***WATERING DELAY*** is **ON**, then water **ZONE 1** and, if the time is 1:00 am wand ***WATERING DELAY*** is **OFF**, then water **ZONE 1**, **2** and **3**

Troubleshooting

Symptom	Suggestion
KRX6™* cannot connect to *Holman Home	When adding your ***KRX6™*** to ***Holman Home***: 1. Confirm your ***KRX6™*** is powered **ON** 2. Confirm both your ***KRX6™*** and smartphone are within Wi-Fi range 3. Ensure Bluetooth® is turned on and permissions are approved for ***Holman Home*** 4. Make sure the network functions of your Wi-Fi router and smartphone are unblocked; firewalls can block certain ports 5. Confirm your Wi-Fi network name (SSID) has been entered correctly, including spaces. Note this is case sensitive 6. Confirm your Wi-Fi network password has been entered correctly 7. Confirm your ***KRX6™*** is connected to a 2.4GHz Wi-Fi network (not 5GHz), enable the broadcast and do not allow the Wi-Fi network to be hidden 8. Confirm your Wi-Fi router encryption method is WPA2-PSK and authentication type is AES, or both are set to automatic. 9. If the number of connected devices to the Wi-Fi has reached the amount limit (usually 16 or 50 devices), turn off other Wi-Fi devices and configure again 10. If your Wi-Fi router enables the MAC address filter, remove the device from MAC filter list and make sure the Wi-Fi router is allowing your ***KRX6™*** to be connected 11. Make sure that the Wi-Fi router has the DHCP service enabled. If it is not enabled, the address will be occupied. 12. Your Wi-Fi router may not compatible with your ***KRX6™***. It is recommended that you replace the Wi-Fi router and try again

Troubleshooting

Symptom	Suggestion
***KRX6™* was connected is now not connecting after mounting in desired position**	This indicates a lack of Wi-Fi signal. You will need to move your ***KRX6™*** and Wi-Fi router closer to each other
No LED lights on	This indicates that there is no power to the unit. Your controller will not operate if there is an AC fault. Please check the power point or plug transformer pack for power. Using a multi meter is best for this action. Replace the fuse. If no power, there may be an issue with the controller. Plug pack transformers for the indoor models are available from Holman's or your local electrical retailer. These require a 1amp 240 to 24V AC/AC transformer.
Single zone not working	Faulty solenoid coil, or break in field wire. Check solenoid coil (a good solenoid coil should read around 33Ω on a multi meter). Test field cable for continuity. Test common cable for continuity
No automatic start	Setup error, **MAIN DIAL** is in **OFF** position, or blown transformer. If unit works manually then check the setup or **MAIN DIAL** position. If not, check the fuse (next to the terminal block). If fuse doesn't need replacing, then check the wiring and transformer is supplying 24V AC (measured on a multimeter)
Buttons not responding	Please contact our Customer Service team

Troubleshooting

Symptom	Suggestion
Multiple zones watering at once	Solenoids may be dirty: clean and flush solenoids to remove debris. Possible faulty driver triac, incorrect field wiring or broken or lost common wire in field. Check wiring and swap faulty valve wires on the controller terminal block with known working zones. If the same outputs are still locked on, please contact our Customer Service team
***KRX6™* is not connecting in AP MODE**	Ensure mobile data is switched off
Fuse keeps blowing	The 1amp glass fuse is installed in the controller to protect the board from being damaged as a result of something wrong in the field wiring (this is the wiring from the solenoid to the controller). If your fuse has blown, check that your wiring on each station is in tack and not damaged in any way. If your fuse is continuously blowing, remove all wires from your zones. Reconnect each station one at a time to help determine which station is causing the fault. Our irrigation controllers use a 5mm x 20mm 1amp glass fuse

Warranty

3 Year Replacement Guarantee

In Australia, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

In addition to the rights and remedies you have under laws relating to your K-Rain product, we also provide you with a K-Rain warranty.

K-Rain warrants this product against defects caused by faulty workmanship and materials for 3 years from the date of purchase. During this warranty period K-Rain will replace any defective product.

In the event of a product being replaced during the warranty period, the warranty on the replacement product will expire 3 years from the purchase date of the original product, not 3 years from the date of replacement.

To the extent permitted by law and without limiting the consumer guarantee, this K-Rain Replacement Warranty only covers products that have been put to domestic use, and excludes liability for consequential loss or any other loss or damage caused to property of persons arising from any cause whatsoever.

It also excludes defects caused by the product not being used in accordance with instructions, accidental damage, misuse, or being tampered with by unauthorised persons, excludes normal wear and tear and does not cover the cost of claiming under the warranty or transporting the goods to and from the place of purchase.

Should you suspect your product may be defective and need some advice, visit our customer service website:

support.holmanindustries.com.au

If you consider that this warranty covers your defective product, present your defective product and your receipt as proof of purchase to the place of purchase, where the retailer will replace the product for you on our behalf.

K RAIN®

We really appreciate having you as a customer and would like to say thank you for choosing us.

We recommend registering your new product on our website. This will ensure we have a copy of your purchase and activate an extended warranty. Keep up to date to with relevant product information and special offers available through our newsletter.

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